# CFP2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

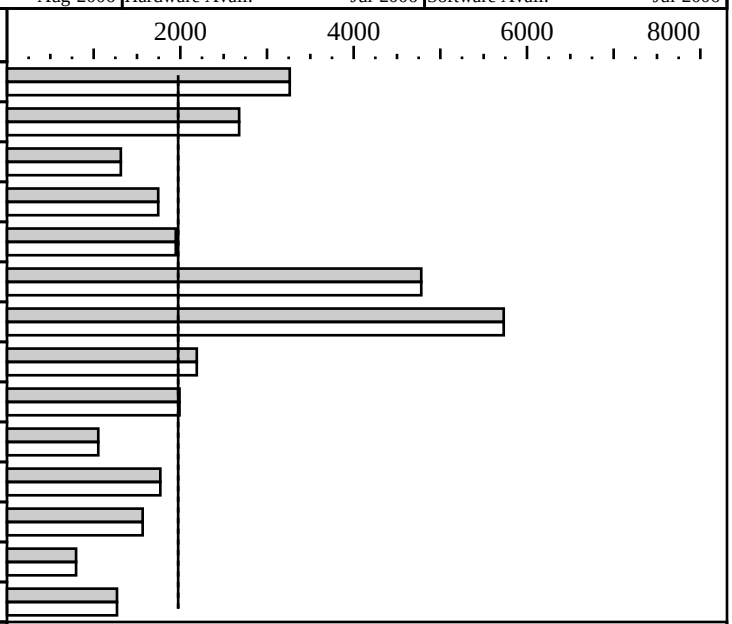
## ION
## A20 (Intel Xeon processor 5130, 2GHz)

SPECfp2000 = 1975

SPECfp_base2000 = 1975

SPEC license #: 2697 | Tested by: ION | Test date: Aug-2006 | Hardware Avail: Jul-2006 | Software Avail: Jul-2006

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |
|---|---|---|---|---|---|
| 168.wupwise | 1600 | 49.0 | 3262 | 49.0 | 3262 |
| 171.swim | 3100 | 116 | 2679 | 116 | 2679 |
| 172.mgrid | 1800 | 137 | 1313 | 137 | 1313 |
| 173.applu | 2100 | 120 | 1745 | 120 | 1745 |
| 177.mesa | 1400 | 71.9 | 1947 | 71.9 | 1947 |
| 178.galgel | 2900 | 60.7 | 4780 | 60.7 | 4780 |
| 179.art | 2600 | 45.4 | 5731 | 45.4 | 5731 |
| 183.equake | 1300 | 59.4 | 2190 | 59.4 | 2190 |
| 187.facerec | 1900 | 95.5 | 1990 | 95.5 | 1990 |
| 188.ammp | 2200 | 209 | 1053 | 209 | 1053 |
| 189.lucas | 2000 | 113 | 1769 | 113 | 1769 |
| 191.fma3d | 2100 | 134 | 1565 | 134 | 1565 |
| 200.sixtrack | 1100 | 138 | 797 | 138 | 797 |
| 301.apsi | 2600 | 205 | 1269 | 205 | 1269 |




### Hardware

| | |
|---|---|
| CPU: | Intel Xeon Processor 5130 (1333Mhz System Bus) |
| CPU MHz: | 2000 |
| FPU: | Integrated |
| CPU(s) enabled: | 4 cores, 2 chips, 2 cores/chip |
| CPU(s) orderable: | 1,2 chips |
| Parallel: | No |
| Primary Cache: | 32KB(I) + 32KB(D) on chip, per core |
| Secondary Cache: | 4MB (I+D) on chip, per chip |
| L3 Cache: | None |
| Other Cache: | None |
| Memory: | 8 GB (8*1GB PC2 5300 FB-DIMMs) |
| Disk Subsystem: | 1 x 80GB SATA (Seagate ST380817AS Barracuda 7200rpm) |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | Red Hat Enterprise Linux ES 4 Update 3 for x86 (32-bit) |
| Compiler: | Intel(R) Fortran Compiler for 32-bit apps, V9.1 (Build 20060706Z)<br>Intel(R) C++ Compiler for 32-bit apps, V9.1 (Build 20060706Z) |
| File System: | ext3 |
| System State: | Multi-user |

## Notes/Tuning Information

```
Tested by ION Computer Systems
 BIOS 2.00 Build 54
   Enhanced SpeedStep Disabled in BIOS
 kernel 2.6.9-34.0.1.ELsmp
 +FDO: PASS1=-prof_gen  PASS2=-prof_use

    SPEC CFP2000 Baseline optimization flags
          C programs: -fast -ansi_alias +FDO
    Fortran programs: -fast +FDO
 +FDO: PASS1=-prof_gen  PASS2=-prof_use

 SPEC CFP2000 Peak optimization flags:
      basepeak=yes  set globally

 Portability Flags:
   178.galgel:  -FI
```